

Today's Topics:

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PL259 connector assembly
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Date: 3 Oct 89 13:10:00 GMT

From: genrad!dls@husc6.harvard.edu (Diana L. Syriac)

Subject: Advanced HyperCard Ham Stack now available

I have finally got the Advanced Ham Stack (for use with MacIntosh HyperCard) typed in, and I've been using it for 4 days. I'm still catching typos.... and fixing them as I catch them.....but it basically works as it should.

This Ham Stack is about twice the size of the previous three (Novice, Technician and General)....also has twice as many questions, so I don't find that surprising.

There is a lot more mathematics involved in the Advanced test, so the Mac Calculator is no longer sufficient to take the test....you really need a scientific calculator...unless you just want to MEMORIZE the answers....which I don't recommend. I find that the only functions required are inverse tangent, cosine, square and square root, $10^{**}x$ (which is same as \log_{-1}), pi, and exponents. The equivalent Thevenin circuit questions I have no difficulty doing in my head, so I don't use the calculator for those.

If you're interested in this stack OR any of the previous three, just email
^^
to me, and I'll send a diskette to you. Please state ORDER OF PREFERENCE
^^
for the stacks, since if they don't all fit on a diskette, I'll only send
two or three of the four. I do have files called Stuffit/UnStuffit, so
I may use that to condense the sizes....but ONLY after I pay the owner
of Stuffit for the use of his shareware. UnStuffit is free, so I guess
I could send that on the same diskette.....I don't yet know whether
it will save enough space...I haven't tried it yet.

Alternately, Peter Hayward will soon be receiving the latest upgrades and the Advanced Ham Stack and I believe he intends to make it available via anonymous ftp at tank.uchicago.edu. Files are in (or will be in)

/pub/public.

Here is my "Advanced Cheat Sheet" of formulas for the Advanced test, for use in PRACTICING with the Ham Stacks (Remember, ya gotta memorize these for the real test):

Advanced Cheat Sheet

Reactance $X_L = 2(\pi)fL$ $X_C = 1 / (2(\pi) fC)$

Resonant freq $f_r = 1 / (2(\pi) \sqrt{LC})$
 $L = 1 / ((2(\pi) f_r)^2 C)$ $C = 1 / ((2(\pi) f_r)^2 L)$

1/2 Power bandwidth $\Delta f = f_r / Q$
Series $Q = X_L / R$ Parallel $Q = R / X_L$

Phase angle $\phi = \tan^{-1} (X / R)$, where $X = X_L - X_C$

Power factor $P_{real} / P_{apparent} = \cos \text{ phase angle}$

Effective radiated power $P_{eff} = 10^{\log_{10}(P_{out}) / 10}$

Modulation index = $f_{deviation} / f_{modulation}$

Antenna efficiency = $R_{radiation} / R_{total} \times 100\%$

Physical length of coax $L(m) = 300 V / f (MHz)$, $V = .66$ for coax

Plate load R of amplifier $R_L = V_p / (K I_p)$

$K = 1.3$ for class A, 1.5 for class AB, 1.57 for class B, 2 for class C

-> Diana L. Syriac CAP: SM, Freedom 690 Ham: soon!

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->USmail: GenRad Inc., Mail Stop 6, 300 Baker Ave, Concord, Mass. 01742 <-

->usenet: {decvax,mit-eddie}!genrad!dls or dls@genrad.com

<-

->tel: (508) 369-4400 x2459 I'D RATHER BE FLYING!!!

<-

Date: Mon, 30 Oct 89 18:48:33 -0800

From: Doug Faunt N6TQS 415-688-8269 <faunt@cisco.com>

Subject: airport security

I've now walked on to four different flights with an HT on my hip, with no problems. I send the HT through the Xray machine on top of my

carry on baggage. The first time I tried, I expected some hassle, and sure enough, the security guy asked to see the HT. It turns out, he has a Novice license, and had never seen a IC32 up close before.

Date: 30 Oct 89 22:36:31 GMT
From: rochester!rit!ultb!cep4478@louie.udel.edu (C.E. Piggott)
Subject: airport security

The question about carrying your HT onto an airplane is one that comes up periodically, and it hasn't been that long since the last time, so I don't think it's worth a tremendous amount of discussion at this time.

However, a (hypocritical?) note of personal experience is that when picking up Dad from New York's LaGuardia airport, I asked the guy if he would let me through with my 2m handheld, and he said that yes, he would, but he would ask to see my license first. He did not convince me with the appearance of authority on the subject, though, so I suspect that LGA's policy is probably stricter than that.

Chris N2JGW

An unrelated note -
(The observation deck of LGA is absolutely beautiful at night, with the lights of the airport and the city and stars above... it has been closed to the public permanently due to bomb threats).

Date: 3 Oct 89 00:12:28 GMT
From: pilchuck!ssc!mcgp1!jgo@uunet.uu.net (John Opalko, N7KBT)
Subject: ARRL

>
> >I checked through some mail maps and found that ARRL HQ is registered as
> >having a UUCP feed. Smail2.5 comes up with the following path (I have
> >never actually tried mailing to ARRL):
> >
> >....{backbone}!harvard!garp!nyser!mstr!evecs!arrlhq
>
>That's strange ... I just ftp the latest maps, and couldn't find arrlhq in the
>CT map.
>

>Am I missing something?

The ARRL machine is listed in the Massachusetts maps (u.usa.ma.1). The submitter of the map entry was evecs!lindh, not somebody at the ARRL.

If you want to send email to ARRL, the name of the contact person there is given as Jon Bloom, arrlhq!jlbloom, phone +1 203 666 1541.

The map entry was submitted 1 September 1989, so it's relatively new.

Evecs is in the CT map, so does anybody have any idea at all why arrlhq would be listed under MA?

John Opalko, N7KBT

Date: 4 Oct 89 00:51:17 GMT
From: pilchuck!ssc!tad@uunet.uu.net (Tad Cook)
Subject: G5RV Antenna Performance

In response to the question about lousy G5RV performance, the best way to feed it is with open wire or twinlead all the way to the antenna tuner in the shack. The tuner should have a balanced output. Even G5RV himself says this is the best way to feed it, and that if you do it this way the element length is non-critical. What he was trying to do with the matching section and odd length was to get something that COULD be matched on most bands.

When you feed it as I described, you really end up with the classic multi-band doublet that the ARRL has been describing in books for years.

73,
Tad Cook
tad@ssc.UUCP
KT7H @ N7HFZ

Date: 30 Oct 89 01:20:05 GMT
From: gem.mps.ohio-state.edu!wuarchive!texbell!attctc!mjbtn!raider!
root@tut.cis.ohio-state.edu (Bob Reineri)
Subject: I want my old callsign back !

Having just been bitten by the ham bug again after 8 years of inactivity, I wonder if it is possible to get my original callsign back.

My original call was WB4QV0. About three years ago, I happened across my ham ticket and was horrified to find it had expired. Luckily, I was still within the grace period for renewal, so I applied for renewal. That's when they sent me the call N4CD0. I didn't think much of it at the time, since I wasn't active, and didn't plan to be.

Now that I'm getting back into it, I really miss my old call. Is it possible to get it back ?

Could someone with a callbook see if this call is in use ? Email would be appreciated.

Bob

N4CD0 (ex WB4QV0 :-()

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* RaiderNet Public Access *Middle Tenn's Unix Gateway* Murfreesboro, TN *
* Data:(615)896-8716 896-7905 Voice:(615)684-4490 Mail:PO Box 2371 Zip 37133 *
* Domain: root@raider.MFEE.TN.US UUCP: {ames,decwrl,mit-eddie}!attctc!raider *

Date: 30 Oct 89 00:45:34 GMT

From: cs.utexas.edu!wuarchive!texbell!attctc!mjbnt!raider!root@tut.cis.ohio-state.edu (Bob Reineri)

Subject: PL259 connector assembly

In article <12600077@silver>, commgrp@silver.bacs.indiana.edu writes:

[good advice about using a large iron and tinning the braid]

In addition, if you put a drop of liquid flux in the holes before you apply the iron, the solder will flow like water. The stuff is great. It makes for the best solder joints I've ever seen, even on "bad" surfaces.

Bob

N4CD0

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* RaiderNet Public Access *Middle Tenn's Unix Gateway* Murfreesboro, TN *
* Data:(615)896-8716 896-7905 Voice:(615)684-4490 Mail:PO Box 2371 Zip 37133 *
* Domain: root@raider.MFEE.TN.US UUCP: {ames,decwrl,mit-eddie}!attctc!raider *

Date: 4 Oct 89 01:09:36 GMT

From: pilchuck!ssc!tad@uunet.uu.net (Tad Cook)

Subject: PTI New Country Status

N7ZZ asked me to post this:

SB DXERS @ ALLUSA \$N7ZZ0929
PTI, Another New One!

Puyallup Tribe of Indians
Application for New Country Status

9/29/89

A group of Northwest amateurs, including N7ZZ, W7EJ, W7ZR, K7SS, K7RA, KE7V, N0AX and others will operate from the Puyallup Tribe of Indians land (PTI) on the weekend of October 13 using their individual calls /PTI. They are applying for separate country status under Rule 1, Government, under the current DXCC rules. See April 1988 QST for complete DXCC rules.

The Puyallup Tribe of Indians land qualifies under the definition of sovereignty, and supporting arguments for the criteria have been discussed with DXAC, ARRL officials, and others. This one stands a good chance of qualifying.

It is located near Tacoma, Washington.

Operation will take place on all bands on recognized DXpedition frequencies. Special commemorative QSLs will be handled via SASE to the callbook address of each operator.

73,

Stu
N7ZZ @ K7IFG
/EX

Date: 30 Oct 89 19:05:35 GMT
From: zephyr.ens.tek.com!tekcr1!tekgvs!jans@uunet.uu.net (Jan Steinman)
Subject: Re^2: WEFAX

<...A PK232 deletes all but 1 out of n lines (where n is something like 6, depending on the aspect ratio), with the result that most of the text on the weather maps is lost. With the PK232 you just get a general idea of what's on the map; a good bit of detail is lost.>

I think that is settable from 1 to 6. The biggest problem with 6 is keeping up with the data stream.

Jan Steinman - N7JDB
Electronic Systems Laboratory
Box 500, MS 50-370, Beaverton, OR 97077
(w)503/627-5881 (h)503/657-7703

Date: 30 Oct 89 22:17:34 GMT
From: rochester!rit!ultb!cep4478@louie.udel.edu (C.E. Piggott)
Subject: Re^2: WEFAX

[BUG FOOD] /* sorry, I can't break myself of this habit */

I have a SPECIFIC question: knowing (assuming?) wefax to be:

11 inches long @
75 lines/inch

So we have 825 lines total. However, what I learn from the Advanced License Class examinations tell me only how to receive an ANALOG signal (this stuff is really outdated - receiving fax with moving pencils on rotating drums? History is important, but we're supposed to concentrate on ADVANCING the state of the art) [throwing water on flamethrower]

Anyhow ... so what I will pull off of my MFJ-1274 (or a PK-232, I guess) will be a string of bits (in packages of 8? or maybe 7).

The MFJ owner's manual says nothing about how many bits wide the picture will be -- how many bytes will I pull off before I return to the left-most column? And, if the signal gets trashed by QRM, will the TNC pad the serial link so only part of a line gets trashed, rather than the rest of the picture being malaligned?

Sorry this is so long -- I must learn to be more terse. Please reply by followup message, because I *KNOW* others have these same questions.

de Chris, N2JGW

Rochester Institute of Technology Amateur Radio Club, K2GXT

End of INFO-HAMS Digest V89 Issue #827
